

ABSTRACT OF THE DISCLOSURE

A mobile radio communication apparatus comprises a wireless transmitter-receiver device configured to perform transmission/reception of a radio signal, a  
5 signal processing device including a resource to which functions are defined, wherein the resource handles at least a modem function and a protocol function, and configured to perform a signal processing necessary in the transmission/reception by use of the resource, and  
10 a controller that controls the signal processing device to redefine, to the resource, another modem function and another protocol function corresponding to respective one of the mobile communication systems.